No.



8300155

THE DANHED SHAYES OF ANDERION

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Moran Seeds, Inc.

Wilhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT INTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLIANT(S) FOR THE TERM OF CIGhteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT OF THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC ED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXTIDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, ORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT \$42, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CELERY

'Bishop'

my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 22nd day of February in
the year of our Lord one thousand nine
hundred and eighty-five.

In Testimony Whereof, I have hereunto set

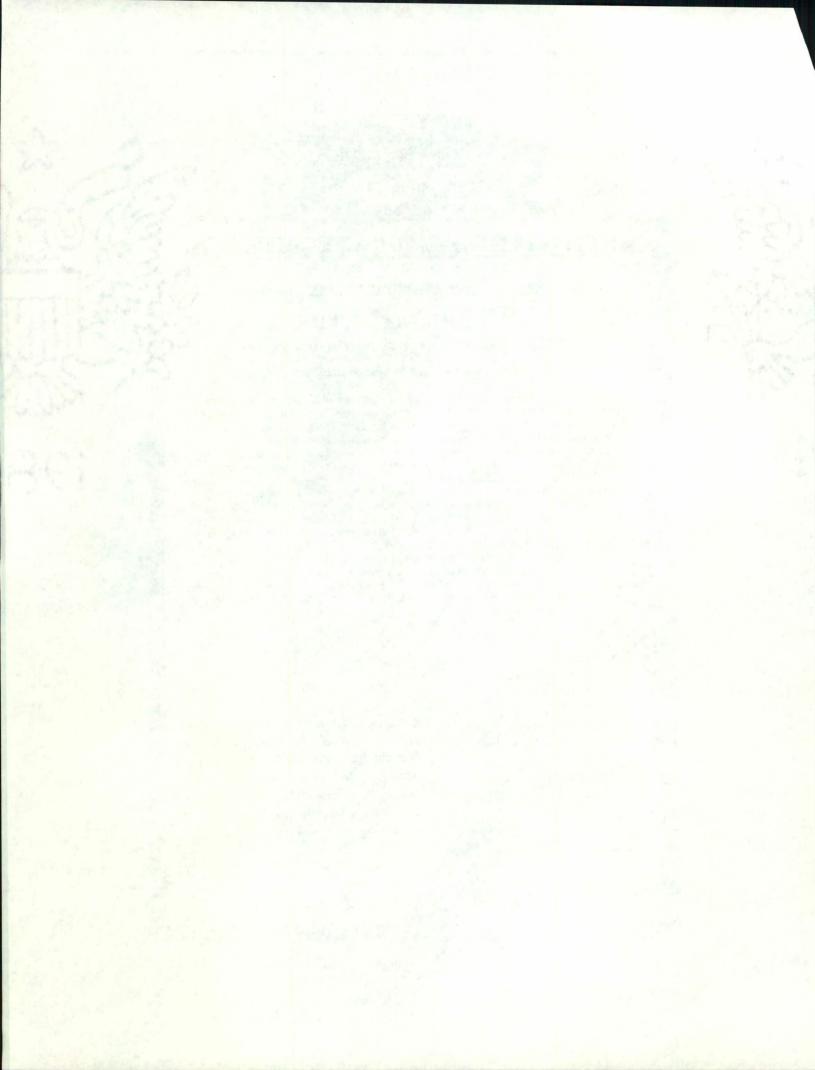
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Secretary of Agriculture

Attest:

Lexible Commissioner

Plant Variety Protection Offices
Agricultural Marketing Services



U.S. DEPARTMENT OF AGRICULTURE FORM APPROVED: OMB NO. 0581-0005 AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION No certificate for plant variety protection may be issued unless a completed appli-APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE cation form has been received (5 U.S.C. (Instructions on reverse) 5531 1. NAME OF APPLICANT(S) 2. TEMPORARY DESIGNATION 3. VARIETY NAME Moran Seeds, Inc. CRY 002 BISHOP 4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 5. PHONE (Include area code) FOR OFFICIAL USE ONLY PVPO NUMBER 1155 Harkins Road Salinas, CA 93901 (408) 757 - 36518300155 6. GENUS AND SPECIES NAME 7. FAMILY NAME (Botanical) DATE 7/18/83 Apium graveolens L. Umbelliferae TIME 2:30 A.M. X P.M. 8. KIND NAME AMOUNT FOR FILING 9. DATE OF DETERMINATION 1,000 RECEIVED CELERY BISHOP-AUGUST 1,1982 DATE 7/18/83 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, AMOUNT FOR CERTIFICATE partnership, association, etc.) \$ 500.00 FEES DATE CORPORATION 1/14/85 11. IF INCORPORATED, GIVE STATE OF INCORPORATION 12. DATE OF INCORPORATION DELAWARE 4/29/64 13. NAME AND ADDRESS OF APPLICANT REPRESENATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Frank V. Westerlund - Moran Seeds, Inc. 1155 Harkins Road, Salinas, CA 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED Exhibit A, Origin and Breeding History of the Variety (See Exhibit C, Objective Description of the Variety (Request form Section 52 of the Plant Variety Protection Act.) from Plant Variety Protection Office.) b. X Exhibit B, Novelty Statement Exhibit D, Additional Description of the Variety 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) Yes (If "Yes," answer items 16 and 17 below) 16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? 17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? Foundation Registered Certified 18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES? Yes (If "Yes," give names of countries and dates) No X 19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES? Yes (If "Yes," give names of countries and dates) 20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

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Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT

SIGNATURE OF APPLICANT

1/5/83

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INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filling fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) 9 of the Act and (2) the date a decision was made to increase the seed. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding 14a method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability. Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished 14b from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty. Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data. 14c Describe any additional characteristics that are not described, or whose description cannot be accurately 14d conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc. If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the 15 applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.) See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of 16 Practice.

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

CELERY: BISHOP

Bishop originated from a single plant selection from a heterogeneous Tall Utah 52-70 type in the Santa Maria Valley of California in 1976.

The plant was selected in an area of a field where 95% of the plants were dead or very stunted from a disease thought to be Fusarium Yellows Race 2. This was confirmed by laboratory isolations and greenhouse pathogenicity tests following Koch's postulates.

The plant was selfed in the greenhouse and the progeny were tested for resistances to Fusarium oxysporum f. sp. apii Race 1 and Race 2. Horticultural type and resistance to Fusarium Yellows Race 1 and 2 were stabilized after 2 generations of screening for resistance in the greenhouse, and single plant selections in the field. In 1979 trials, a mass of 10 comparable plants was made and designated as 76-2-723-1 and used to make a basic seed increase.

Greenhouse resistant screening trials and field trials in areas with a history of Fusarium Yellows Race 2 confrimed that the basic seed increase was resistant to Fusarium Race 1 and 2 and the genetic makeup of the variety was stabilized. This experimental variety was temporarily designated CRY002. A fifth generation grown in 1981 also exhibited the true breeding character of this new celery variety 'Bishop'.

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ALPULLINGO, TENDOS

EXHIBIT B

NOVELTY STATEMENT

Bishop belongs to the Crystal Jumbo class of celery varieties. Bishop possesses characteristics most closely resembling those of Tall Utah 52-70R Improved. However, Bishop is tolerant to Fusarium Yellow Race 2 and Tall Utah 52-70R Improved is susceptible. Bishop matures 5 days later than Tall Utah 52-70R Improved, averages 1 cm. shorter than Tall Utah 52-70R Improved. The 10 outer petioles average 5 mm longer than Tall Utah 52-70R Improved and the 4 inner petioles are 2mm shorter. The petioles are moderately cupped with inconspicuous ribbing and moderate stringiness. The 14 petioles form a compact cylindrical stalk that is slightly flaring at the base.

CHARACTERISTICS		BISHOP	TALL UTAH 52-70R IMP.
1.	Fusarium Yellows Race 1	Resistant	Resistant
2.	Fusarium Yellows Race 2	Tolerant RESISTANT	Susceptible
3.	Average maturity days	100	95
4.	Ribbing	Inconspicuous	Moderate
5.	Height	58cm	59 cm

SUMMARY:

Bishop most closely resembles Tall Utah 52-70R Improved. However, Bishop is five (5) days later than Tall Utah 52-70R Improved and has inconspicuous ribbing, whereas, Tall Utah 52-70R Improved has moderate ribbing. Bishop is tolerant to Fusarium Yellows Race 2 and Tall Utah 52-70R Improved is susceptible.

= Resistant 12/7/84 8911

LIMBER BUTTOUR FOREST



FIGURE 1. - Photograph showing the resistant reaction of Bishop to Fusarium oxysporum f. sp. apii Race 2 compared to the susceptible reaction of Tall Utah 52-70R Improved. (Greenhouse inoculation)

CARROL STRAIN ENGINEE SCUTHWATER COLLS A.S.



52-70R IMPROVED

BISHOP

FIGURE 2. - Photograph showing resistant reaction of Bishop and the susceptible reaction of 52-70R Improved to Fusarium oxysporum f. sp. apii Race 2. (Oxnard Calif)

PERMINDER STREET OF SHELLER





FIGURE 3 Photo above shows differences in degree of cupping between Bishop and Deacon petioles.

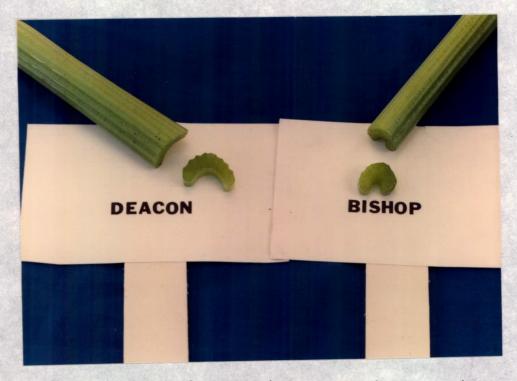
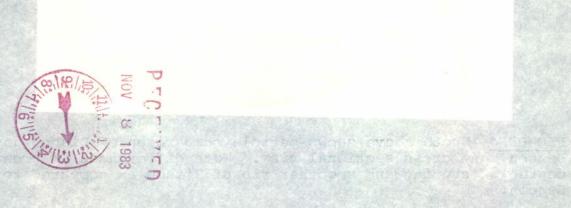


FIGURE 4 Photo above shows petiole comparison of Bishop and Deacon, and cross sectional view. Note differences in greater degree of cupping and smoother rib of Bishop as compared to Deacon.

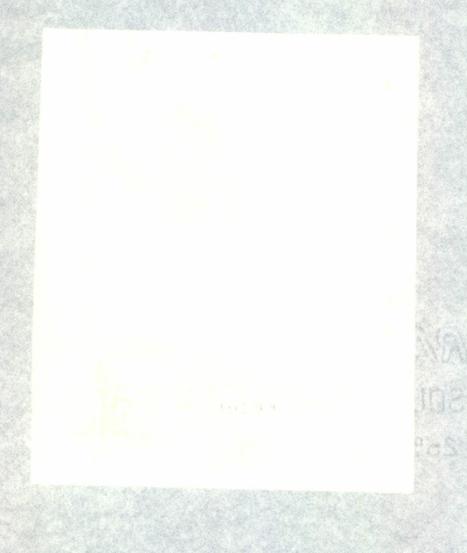


BISHOP CELERY 8300155



FIGURE 5 Shows cut sections of petioles of Bishop and Deacon.

Note smooth rib and extreme cupping present in Bishop as compared to Deacon.





FORM APPROVED: OMB NO. 0581-0055 EXHIBIT C

(Celery)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

CELERY (Apium graveolens L. var. dulce (Miller) Pers.)

NAME OF APPLICANT(S)		TEMPORARY DESIG	NATION VARIETY NAME
MORAN SEEDS, INC.		CRY002	BISHOP
ADDRESS (Street and No., or R.F.D. No., City, Sta	ate, and Zip Code)	1	FOR OFFICIAL USE ONLY
1155 Harkins Road			8300155
Salinas, CA 93901			000100
characters should be based on a minimum of	50 plants. Include l varieties entered in	eading zeros when no the same trial with t	e application variety. Data for quantitative plant ecessary (e.g., 0 8 9) for quantitative data. he same planting or transplant date. Plant colors ureau of Standards Color Kit 2107.
		ISON VARIETIES or Use Below)	
1 = Tall Utah 52-70R Improved 2 = Fig	orida 683 3	= Summer Pascal	4 = Tall Golden Self Blanching
2 = Ordinary Utah (Tall Uta 3 = Pascal (Summer Pascal) 4 = Green Intermediates (State of State of Stat	ow Bolting Green No. If Blanching)		of growing location):
1 0 0 Days in Western U.S. (Specify	growing location and	transplant date): Sa	alinas Valley California
Days earlier than		Tr	ransplanted 5/19/82
Same as	Comparison Variet	ies	
0 5 Days later than 1			
Days in Eastern U.S. (Specify	growing location and t	ransplant date):	Not tested
Days earlier than			
Same as	Comparison Variet	ies	
Days later than			
Class (as determined by number	er of days from transpla	anting to harvest maturi	ty):
3 In Western U.S.	1 = Very Early (< or = 70 days	2 = Early (71 -	85 days)
NT In Eastern U.S.	3 = Midseason (86 - 100 days)	4 = Late (101	5 = Very Late - 115 days) (>or = 116 days)

	(Of outermost petio	of trimmed pla	nt):			
Color of	Upper Surface:					
3	1 = Yellowish Gre (Tall Golden S	en Self Blanching)	2 = Dark Green (Tall Utah 52-70 Improved)	R but le	Specify) <u>Dark Green like 52-70R</u> af thinner than 52-70R and ent shape and appears light gre	
Color C	hart Value (Specify	chart used;		in tra	nsmitted light."):	
App	lication Variety —					
Com	parison Variety —					
BOLTING:						
Class:						
2	3 = Very Slow B		Bolting Golden Plume)	2 = Slow Bolting (Slow Bol		
0 0 3	% Plants Bolted i period for artifici	n Seedling Year (S) al induction; 12	pecify growing location and days in cold s	nd transplant date for field to storage room at 1	ests, or temperature and length of vernalization C in 1982):	
	% More plants bo	olted than	1 - Toll I	Itah 52-70R Improved		
Note:	Same % plants bo	olted as	2 = Florid	da 683		
6 4	% Less plants bol	ted than 2	3 = Golde 4 = Slow	Bolting Green No. 96		
STRESS TOLI	ERANCE (0 = untes	ted, 1 = susceptible (S) and tolerant	e, 2 = tolerant; data from (T) check varieties should	replicated tests comparing t be provided whenever possi	he application variety with the indicated ble in Exhibit D):	
0	Adaxial Crack	stem (Boron Deficiency; S = Utah 10-B, T = Tall Utah 52-70R Improved)				
O Abaxial Crackstem (Boron Deficiency; S = Florimart, T = Florida 683)						
Leaf Margin Chlorosis (Magnesium Deficiency; S = Utah 10-B, T = Tall Utah 52-75)						
	Blackheart (Ca	alcium Deficiency;	S = Florida 683)			
0						
0	Other (Specify) 				
8. DISEASE R	ESISTANCE (0 = u suscep	ntested, 1 = susceptible (S) and resist	otible, 2 = resistant; data f tant (R) check varieties sh	rom replicated tests compari ould be provided whenever p	ing the application variety with the indicated possible in Exhibit D):	
0	Bacterial Leaf	Spot (Pseudomor	nas cichorii; S = Florida 6	883, R = Florimart)		
			= Florida 683, R = Flor			
	Late Blight (S	(Septoria spp.; S = Florida 683) Yellows, Race 1 (Fusarium oxysporum f. sp. apii; S = Fordhook, R = Tall Utah 52-70R Improved)				
2	Fusarium Yell					
2	Fusarium Yel	lows, Race 2 (Fusa	arium oxysporum f. sp. a	pii; S = Tall Utah 52-70R I	mproved)	
0	Western Celer	y Mosaic (Marmor	umbelliferarum; S = Flo	rida 683)		
0	Southern Cele	ery Mosaic (Marmo	or cucumeris var. comme	inae; S = Florida 683)		
	Pink Rot (Scl	erotinia spp.; S =	Florida 683)			
	Other (Specif		EARLES .		1.4	
9. INDICATE			LY RESEMBLES THE A	PPLICATION VARIETY FO	OR THE FOLLOWING CHARACTERS:	
	ARACTER		/ARIETY	CHARACTER	VARIETY	
Plant He	ight	Tall Utah	52-70R Imp.	Leaf Color	Self	
Petiole C	Color	Tall litah	52-70R Imp	Maturity	Tall IIt ah 52-700 Imp	

Bolting Resistance

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

Tall Utah 52-70R Imp.

Petiole Length

Slow bolting green #96

EXHIBIT D

ADDITIONAL DESCRIPTION OF THE VARIETY

Bishop is a midseason Crystal Jumbo type celery for fresh market or processing. The plant height is similar to 52-70R Improved but the petioles are longer, more deeply cupped and smoother. Bishop is similar to 52-70R Improved in stalk shape and conformation. Bishop is tolerant to Fusarium Yellows Race 2 and 52-70R Improved is susceptible. Both are resistant to Fusarium Yellows Race 1. (Figure 1 & 2 and Table 1 & 2)

Table 1,	Race 2 Fusar	ium oxysport	m f. sp. api	i	
	% Stunt	ing (1)	Vascular	discoloration	(2)
	Macroco	nidia/ml	Macrocor	nidia/ml	
Variety	1x10 ⁴	1x10 ⁶	1x10 ⁴	1x10 ⁶	
Tall Utah 52-70R Improved	68%	- 98%	4.5	5	
Bishop	0	10%	4.5	4.5	

- (1) Dr. R. M. Endo U. C. Riverside Plant Pathologist uses percent stunting as an indication of the varieties ability to produce a near normal plant in a disease situation.
- (2) Vascular discoloration scale 1= vascular discoloration affecting less than 50% of the infected root and 5= affecting the entire crown; 2, 3, 4= intermediate values 65%, 75%, 85% respectively.

Table 2.	Race 1 Fusar	ium oxysporum	f. sp. api	<u>li</u>	
	% Stunt	ing	Vascular	r discoloration	ı
	Macroconidia/ml		Macroconidia/m1		
Variety	1x10 ⁴	1x10 ⁶	1x10 ⁴	1x10 ⁶	
Tall Utah 52-70R Improved	0	0	0	0	
Bishop	0	0	0	0.7	

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CALCO HARDWATER

ASSIGNMENT

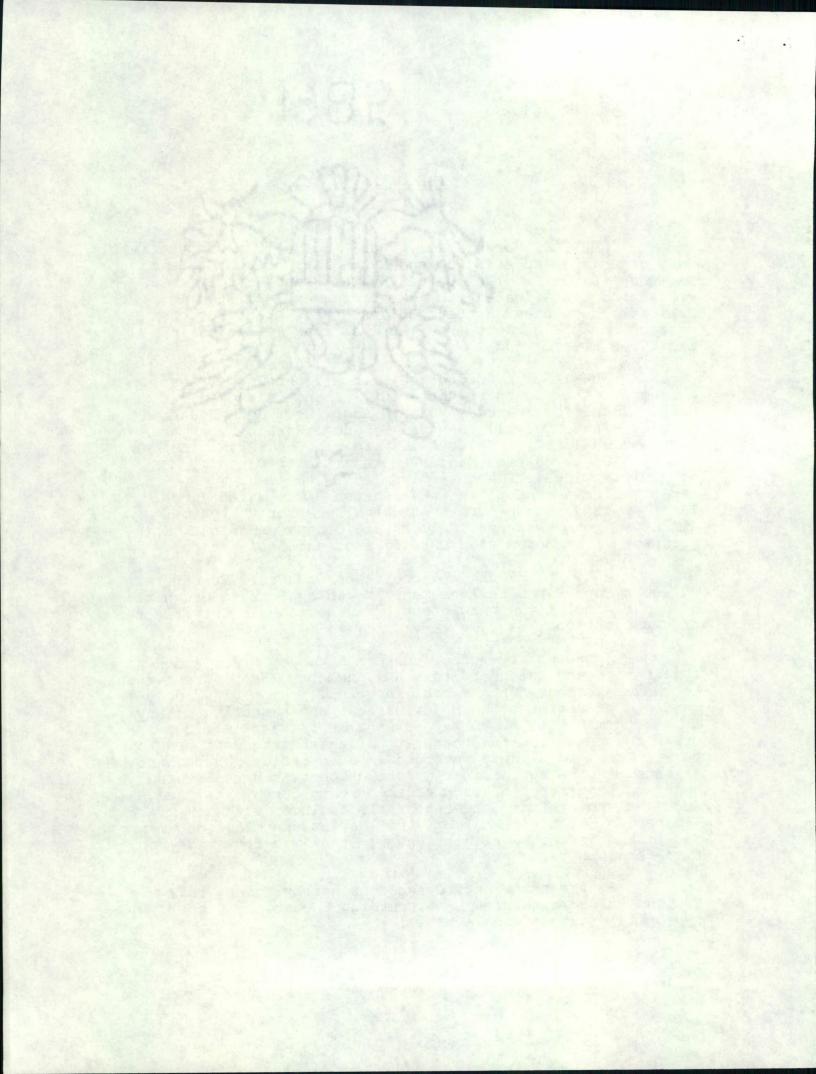
WHEREAS, Moran Seeds, Inc. ("Moran"), a corporation duly organized and existing under the laws of the State of Delaware is the owner of United States Plant Variety Protection Certificates (the "Certificates"), listed in Exhibit A hereto and Pending United States Plant Variety Protection Applications (the "Applications"), listed in Exhibit B hereto; and

WHEREAS, in accordance with a Technology Transfer Agreement (the "Transfer Agreement") among Celanese Corporation ("Celanese"), Moran Seeds, Inc., Joseph Harris Company, Inc., CelPril Industries, Inc., Harris Moran International B.V. ("Sellers"), Virginia Chemicals, Inc., Les Produits Organiques du Santerre-Orsan S.A. ("Orsan"), HMS Acquisition Inc., CP Acquisition Inc., and Exploitatiemaatschappij Wolwevershaven B.V., dated January 1985, and a Purchase Agreement dated December 7, 1985, as amended, among Celanese, Sellers and Orsan, Orsan has purchased from Moran said Certificates and Applications.

NOW, THEREFORE, in accordance with said Transfer Agreement and Purchase Agreement, Moran assigns to Orsan all of its rights, title and interest in and to said Certificates and Applications.

Moran hereby authorizes Orsan to apply for and obtain the recordation of this Assignment. Moran agrees that it shall, without further consideration, promptly and duly cause to be performed such lawful acts and execution of any other documents as Orsan may reasonably request in order for Orsan to obtain the full benefits of this Assignment and to permit Orsan to be duly recorded in each office, bureau and tribunal in the appropriate jurisdiction as the registered owner or proprietor of each of the rights hereby assigned. Such instruments and documents shall include, without limitation, such applications, affidavits and other documents for filing in such jurisdictions as Orsan may from time to time reasonably request.

By these presents Orsan does hereby accept this Assignment and authorize the recording thereof with the appropriate authorities aforesaid.

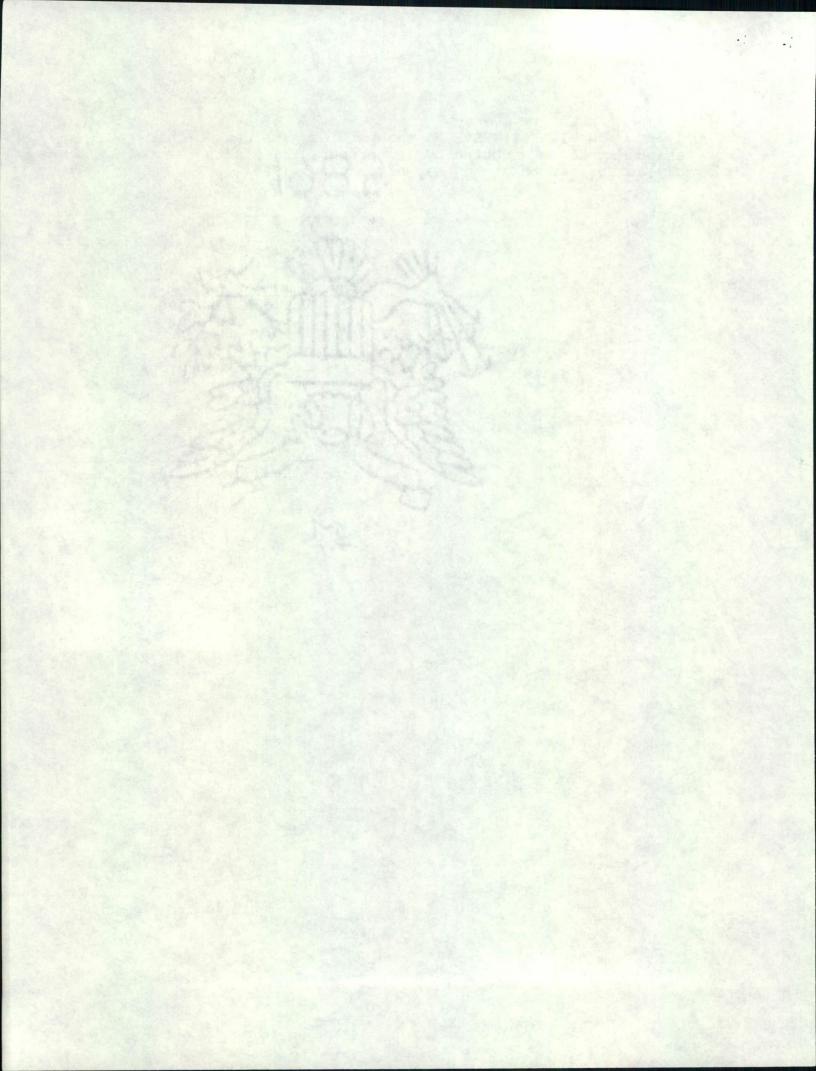


IN WITNESS WHEREOF, the parties have caused this Assignment to be executed by its proper officers thereunto duly authorized this fix day of January, 1985.

> MORAN SEEDS, INC., Assignor

Vice President

LES PRODUITS ORGANIQUES DU SANTERRE-ORSAN S.A. Assignee



STATE OF New York COUNTY OF New York

Before me, a Notary Public, in and for said County, personally appeared Navy who acknowledged that he is Notary Public, in and for said County, who acknowledged that he is Notary Public, in and for said County, who acknowledged that he is Notary Public, in and for said County, who acknowledged that he is Notary Public, in and for said County, personally appeared of Moran Seeds, Inc., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument on behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Moran Seeds, Inc.

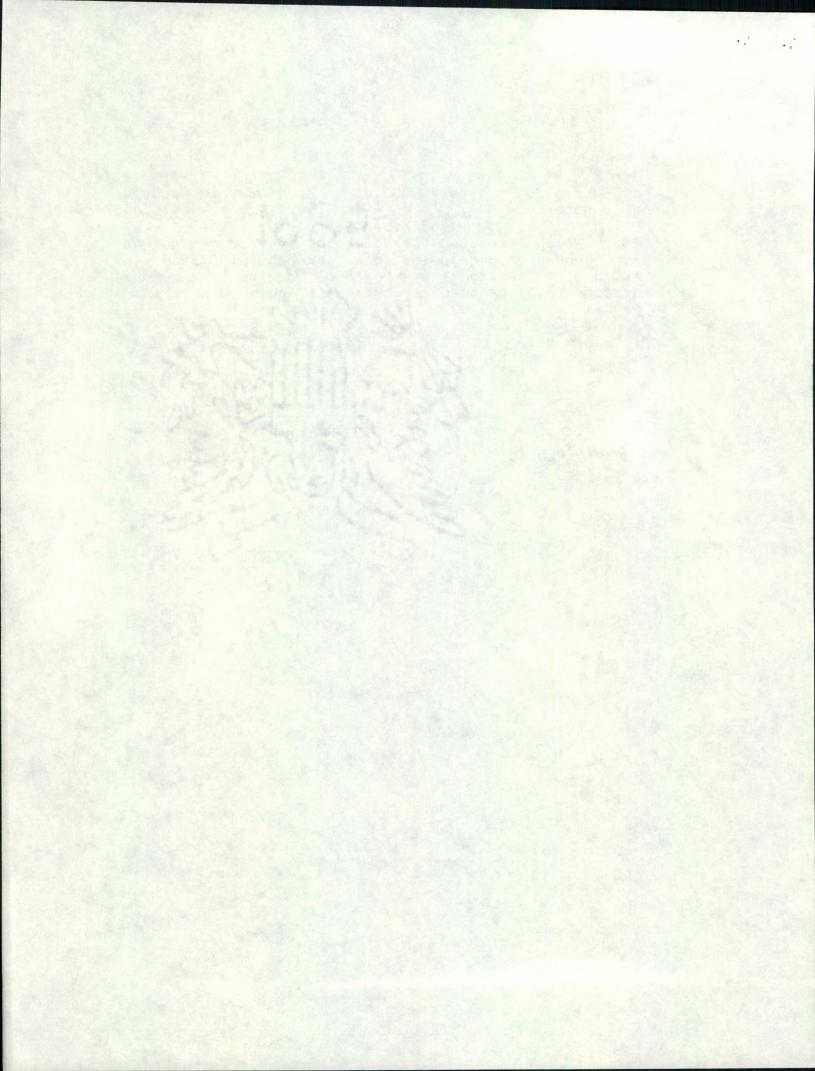
Sworn before me at New York this 10th day January , 1985

Clex C. Lengyel

(Notary Public)

My Commission Expires:

ALEX C. LENGYEL Notary Public State of New York Qualified is new rock County Commission Expires March 30, 199 6



STATE OF New York COUNTY OF Now York

Before me, a Notary Public, in and for said County, personally appeared fature laterally who acknowledged that he is the fature of Les Produits Organiques du Santerre-Orsan S.A., the corporation which executed the foregoing instrument and who acknowledged he signed said instrument on behalf of said corporation by authority of its Board of Directors; and that said instrument is the free corporate act and deed of said Les Produits Organiques du Santerre-Orsan

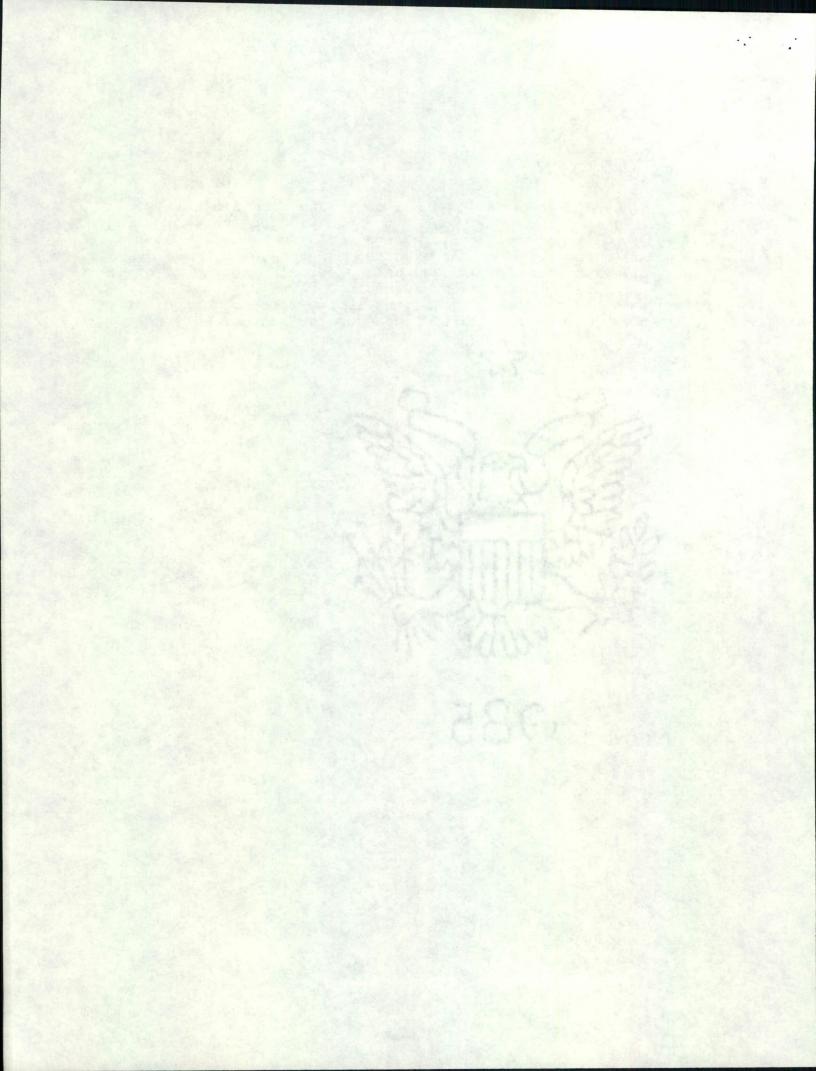
Sworn before me at New York this 10th day of January, 1985.

Clay C. Lengyel

(Notary Public)

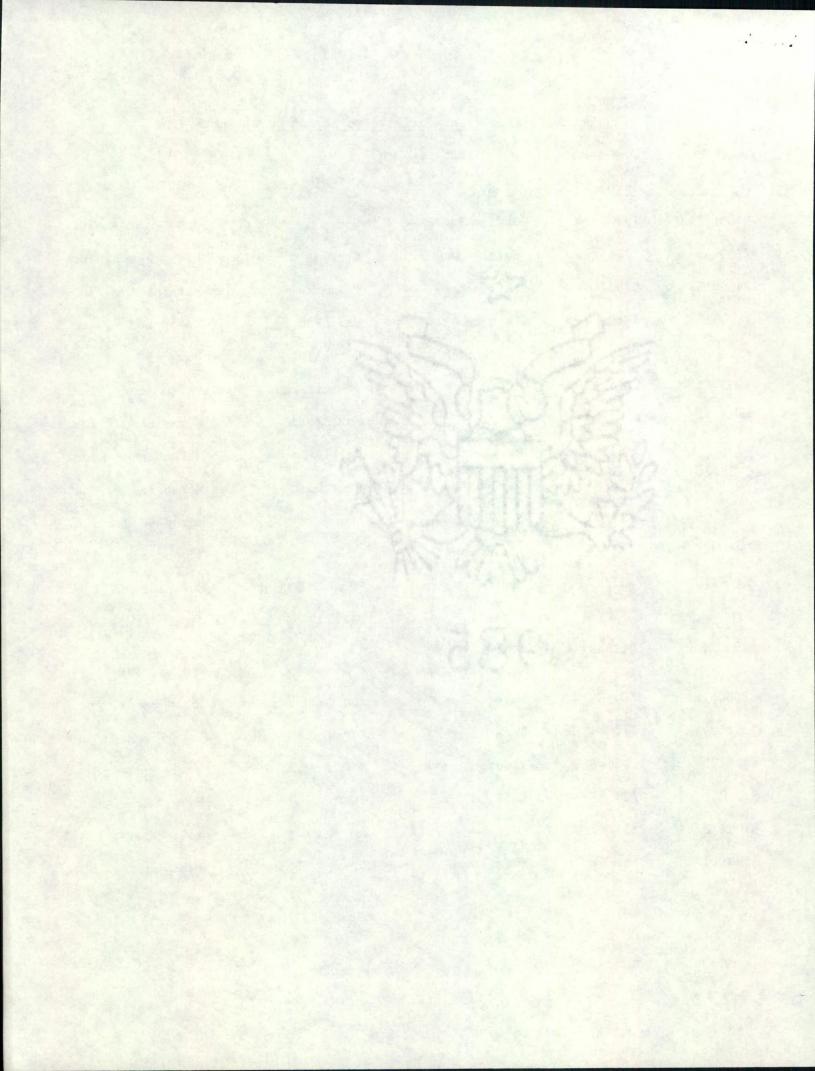
My Commission Expires:

ALEX C. LENGYE. Notary Public State of New York No 31 4804123 Odalified in New York Courty Commission Expires March 10, 198 6



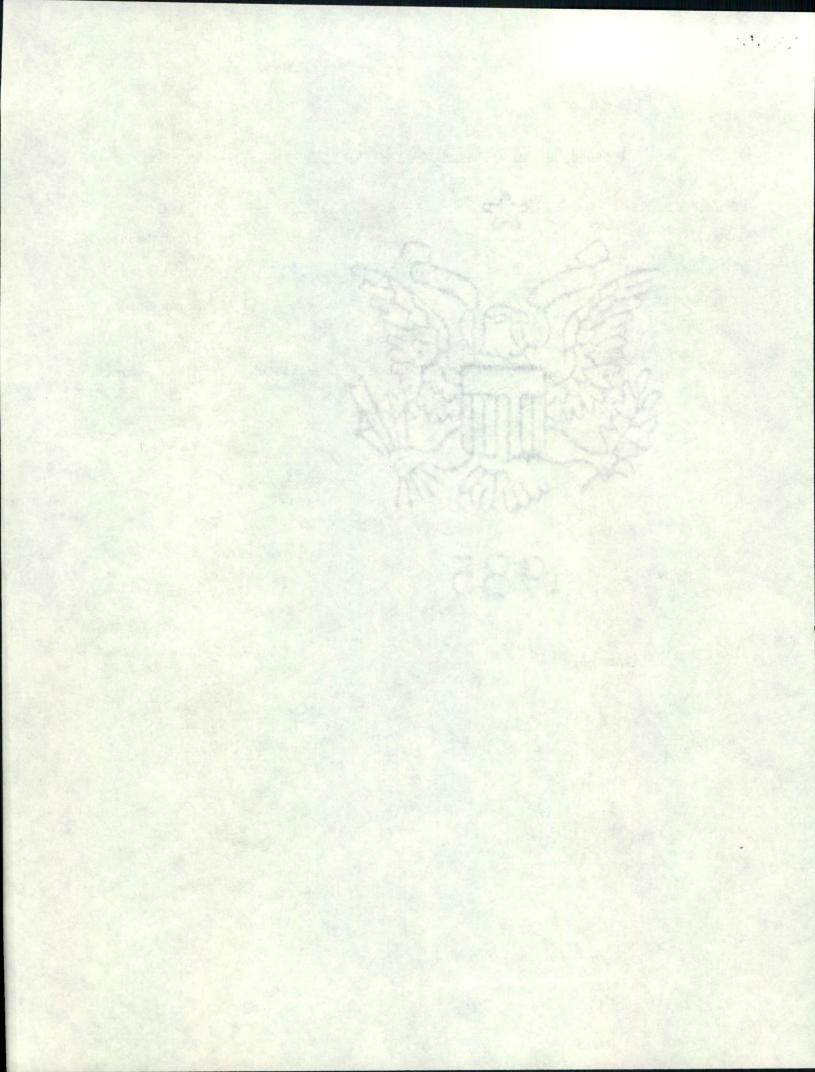
United States Plant Variety Protection Certificates

Cert. No.	Date Issued	<u>Kind</u>	Variety Name	<u>Owner</u>
7200145	10/30/74	Garden Bean	Gem	Moran Seeds, Inc.
7200146	11/15/74	Watermelon	Charleston 76	Moran Seeds, Inc.
7400013	5/9/74	Lettuce	Calmaria	Moran Seeds, Inc.
7400014	6/19/74	Lettuce	Ca1 K-60	Moran Seeds, Inc.
7400071	6/19/74	Lettuce	Cabrillo	Moran Seeds, Inc.
7600032	9/15/77	Lettuce	Vanagara	Moran Seeds, Inc.
7600039	12/8/77	Lettuce	Morangold	Moran Seeds, Inc.
7800028	5/31/79	Muskmelon	Valley Gold	Moran Seeds, Inc.
7900038	1/14/82	Garden Bean	Blue Duet	Moran Seeds, Inc.
7900039	7/15/82	Snapbean	Score	Moran Seeds, Inc.
7900066	11/27/79	Cauliflower	Snowball 123	Moran Seeds, Inc.
8000020	7/31/80	Muskmelon	Top Net	Moran Seeds, Inc.
8000082	12/10/81	Lettuce	Delmar	Moran Seeds, Inc.
8200019	10/28/82	Onion	омо м	Moran Seeds, Inc. Oshita, Inc.
8200061	3/24/83	Watermelon	Sun Gold	Moran Seeds, Inc.
8200104	10/28/82	Tomato	Advantage	Moran Seeds, Inc.
8200105	11/26/82	Tomato	Moran 3053	Moran Seeds, Inc.
8200027	4/23/83	Lettuce	El Toro	Moran Seeds, Inc.
8100172	9/29/83	Lettuce	Van Mor	Moran Seeds, Inc.
8300113	8/31/84	Muskmelon	Top Net SR	Moran Seeds, Inc.



Pending United States Plant Variety Protection Applications

Application No.	Filing Date	Kind	Variety Name	<u>Owner</u>
8100167	9/9/81	Lettuce	Yuma	Moran Seeds, Inc.
8300155	7/18/83	Celery	Bishop	Moran Seeds, Inc.
8300156	7/18/83	Celery	Deacon	Moran Seeds, Inc.
8300172	9/1/83	Tomato	Diego	Moran Seeds, Inc.
8400013	12/1/83	Lettuce	Greenfield	Moran Seeds, Inc.



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DEED OF ASSIGNMENT

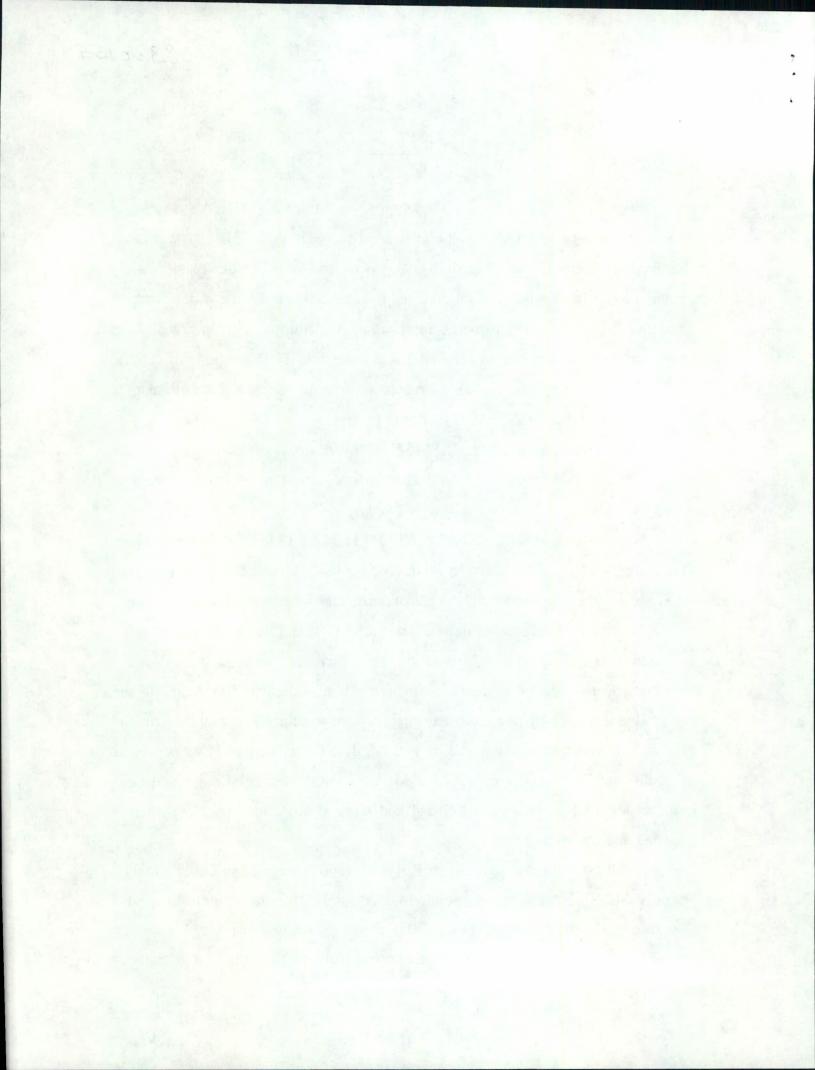
WHEREAS, Les Produits Organiques du Santerre – ORSAN (S.A.), a French corporation having a place of business at 16 rue Ballus, 75009 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Arisix (S.A.), a French corporation having a place of business at 61 rue des Belles Feuilles, 75116 Paris, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

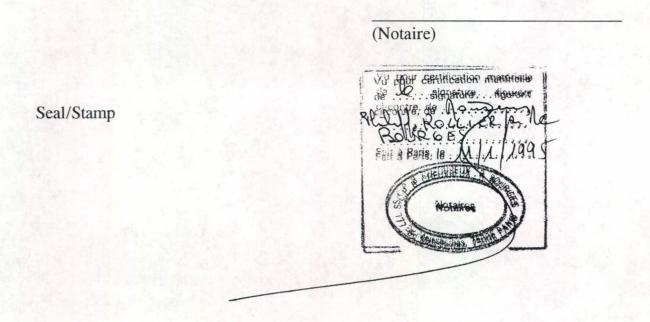
ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer

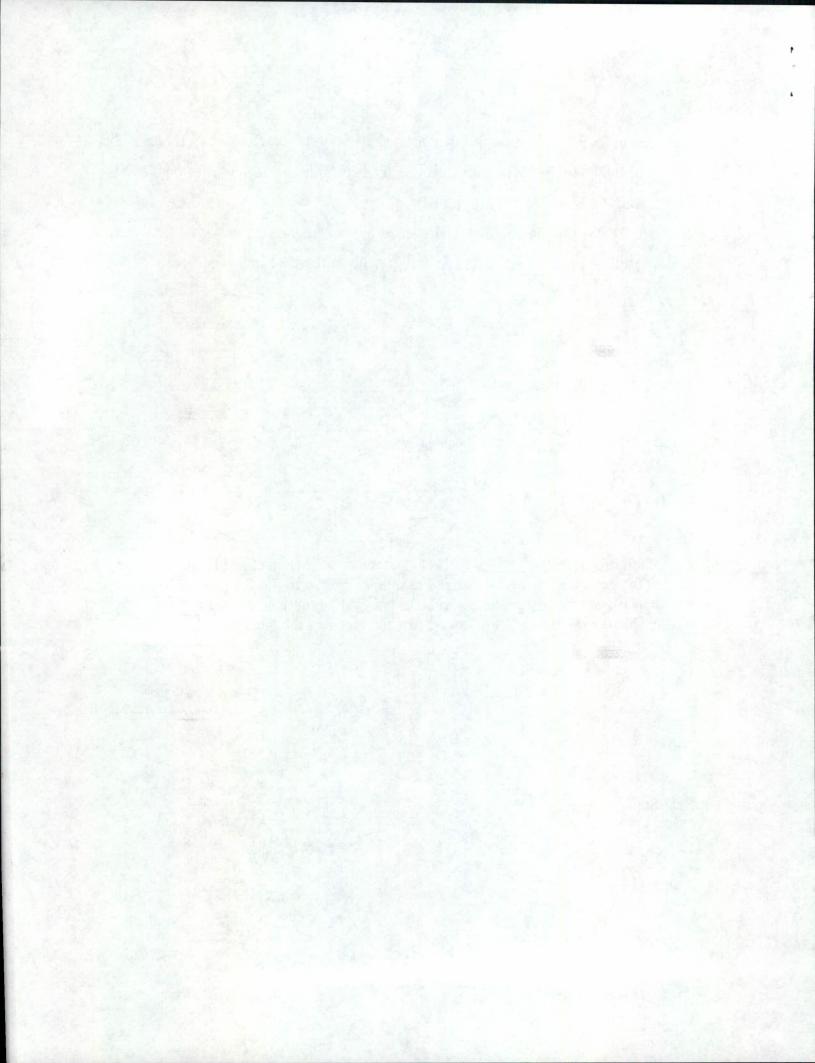


thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

Date: //11/95	Les Produits Organiques du Santerre - ORSAN (S.A.)
	PHILIPPE ROLLIER
	Print Name
	PRESIDENT
	Print Title
	, 1993, before me, the undersigned notary public, ove-named assignor, known to me (or proved to me on
the basis of satisfactory evid	dence) to be the person whose name is subscribed to the nowledged that he executed the same.





DEED OF ASSIGNMENT

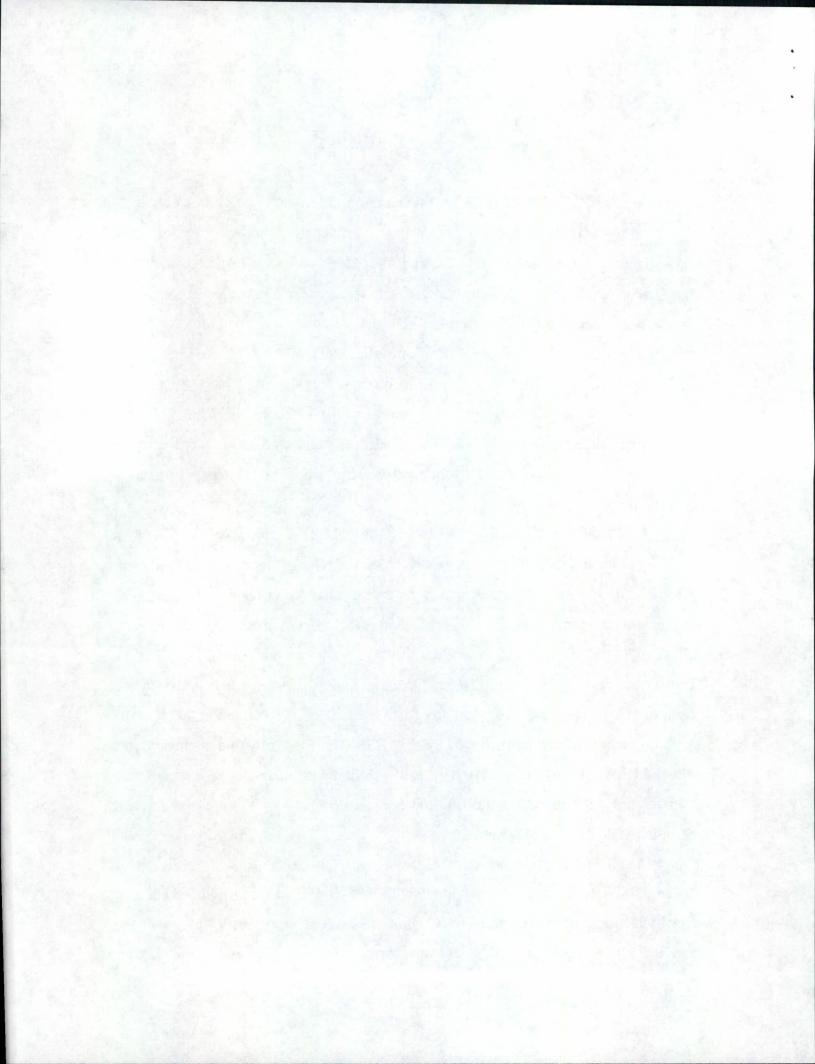
WHEREAS, Arisix (S.A.), a French corporation having a place of business at 61 rue des Belles Feuilles, 75116 Paris, France (hereinafter referred to as "ASSIGNOR") owns and is using the Plant Variety Protection Certificates listed on the attached Exhibit for the indicated varieties which were awarded to ASSIGNOR by the Secretary of Agriculture on the indicated dates upon applications filed with the United States Plant Variety Protection Office; and

WHEREAS, Clause (S.A.), a French corporation having a place of business at 1 Avenue Lucien Clause, 91221 Bretigny sur ORGE Cedex, France,

(hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said varieties and Plant Variety Protection Certificates;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title and interest in and to the said varieties and said Plant Variety Protection Certificates in the United States including reissues, and including the right to enforce such rights against any past, present or future violation thereof, the said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any right, title and interest assigned and transferred hereby.

ASSIGNOR further agrees that it will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the assignment of said Certificates and the perfection of all rights thereto, execute, verify, acknowledge and deliver all such further papers and instruments of assignment and transfer



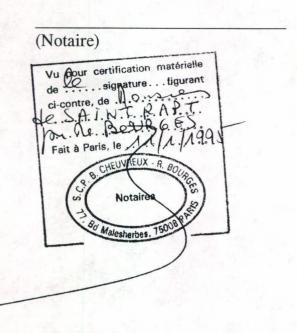
thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain the listed Certificates and to vest title thereto in said ASSIGNEE or ASSIGNEE's successors and assigns.

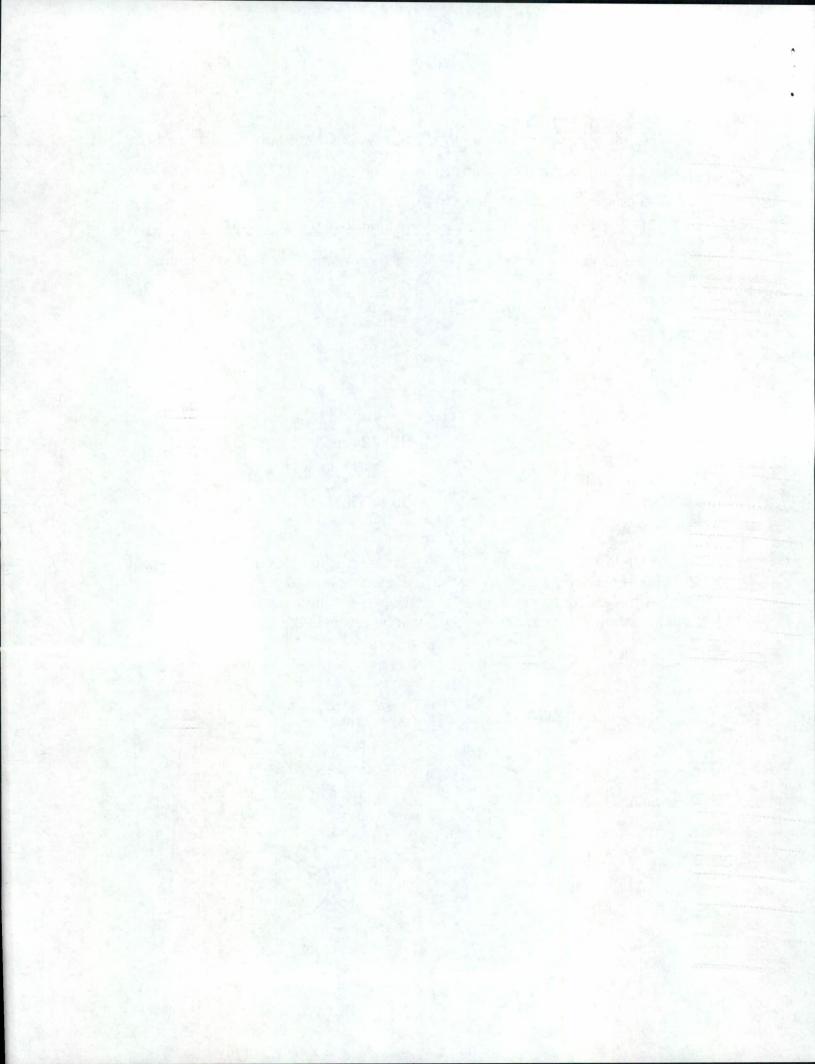
IN TESTIMONY WHEREOF, an authorized representative of ASSIGNOR has hereunto signed its name to this assignment on the date indicated below.

	Arisix (S.A.)
Date: 1/11/45	Mark Den 72
	P DE SAINT RAPT
	Print Name
	PAES: DENT.
	Print Title

On this date, ______, 1993, before me, the undersigned notary public, personally appeared the above-named assignor, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same.

Seal/Stamp

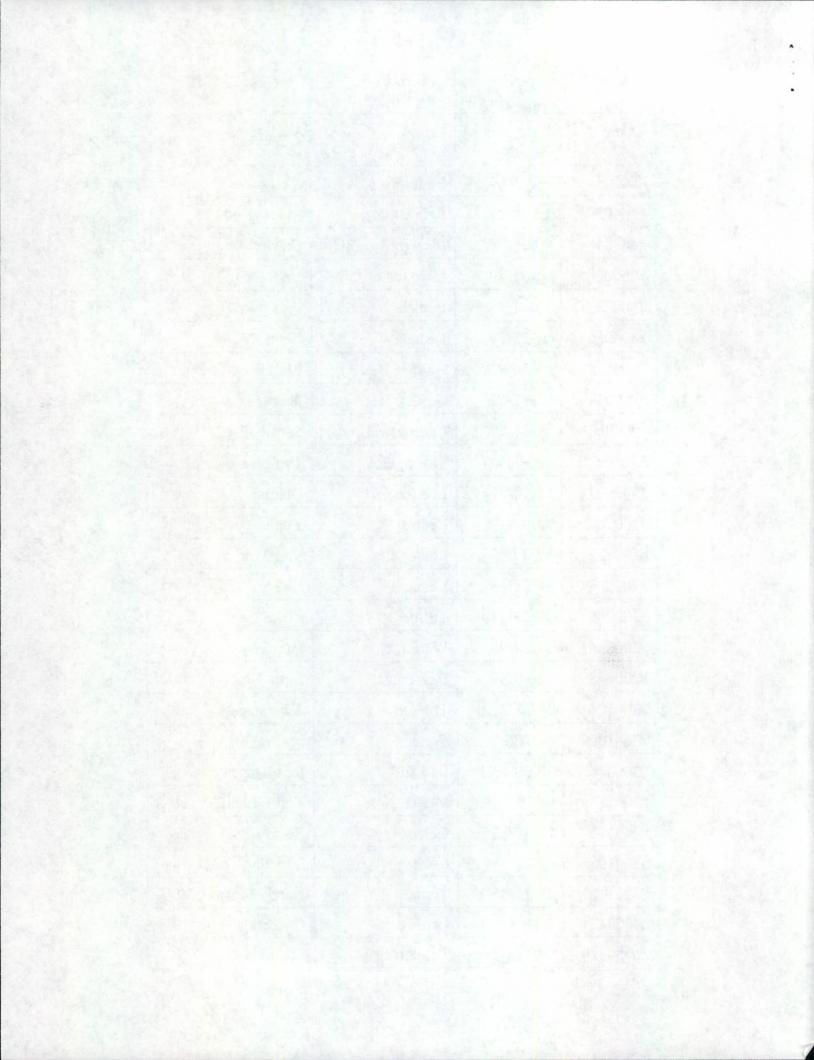




EXHIBIT

Certif. #	Date Status Begins	Crop	Variety Name
7600032	09/15/77	L-ettuce	Vanagara
7600039	12/08/77	Lettuce	Morangold
7605018	09/28/77	Marigold	Cabaret Orange
7800028	05/31/79	Muskmelon	Valley Gold
7800033	12/21/78	Radish	Fancy Red
7800086	01/25/79	Lettuce	Deep Red
7900038	01/14/82	Garden Bean	Blue Duet
7900039	07/15/82	Garden Bean	Score
7900066	11/27/79	Cauliflower	Snowball 123
8000020	07/31/80	Muskmelon	Top Net
8000082	12/10/81	Lettuce	Delmar
8100167	3/29/85	Lettuce	Yuma
8100172	09/29/83	Lettuce	Van Mor
8200027	04/23/83	Lettuce	El Toro
8200045	09/23/82	Turnip	Royal Gem
8200061	03/24/83	Watermelon	Sun Gold
8200068	12/30/82	Egg Plant	Little Fingers
8200104	10/28/82	Tomato	Advantage
8200105	11/26/82	Tomato	Moran 3053
8300024	12/30/83	Radish	Red King
8300113	08/31/84	Muskmelon	Top Net SR
8300155	02/22/85	Celery	Bishop
8300156	01/25/85	Celery	Deacon
8300172	11/29/85	Tomato	Harris Morgan 3075
8400013	2/19/88	Lettuce	Greenfield
8600032	03/11/88	Tomato	Murrieta II

Expired Expired Expired



PLANT VARIETY PROTECTION REGISTRATION ASSIGNMENTS

Clause, S.A. to Harris Moran Seed Company

WHEREAS, Clause, S.A. ("Assignor"), a corporation organized and existing under the laws of France, has sold and transferred assets, including plant variety protection registrations, to Harris Moran Seed Company ("Assignee"), a corporation organized and existing under the laws of the State of Maryland;

WHEREAS, Assignor, is the owner of the following plant variety protection registrations:

VARIETY NAME	Registration No.	Issue Date
BLUE DUET	7900038	01/14/82
SCORE	7900039	07/15/82
TOP NET SR	8300113	08/31/84
TOP NET	8000020	07/31/80
SNOWBALL 123	7900066	11/27/79
BISHOP	8300155	02/22/85
DEACON	8300156	01/25/85
LITTLE FINGERS	8200068	12/30/82
EL TORO MI	8200027	04/28/83
DELMAR MI	8000082	12/10/81
GREENFIELD MI	8400013	02/19/88
VAN MOR MI	8100172	03/29/83
YUMA MI	8100167	03/29/85

		. 8
	*	

RED KING	8300024	12/30/83
MORAN 3053	8200105	11/26/82
ADVANTAGE	8200104	10/28/82
HARRIS MORAN 3075	8300172	11/29/85
ROYAL GEM	8200045	09/23/82
SUN GOLD	8200061	03/24/83

WHEREAS, Assignor is desirous of selling and Assignee is desirous of acquiring the aforesaid plant variety protection registrations of Assignor.

NOW THEREFORE, for \$10.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, by these presents sells, assigns and transfers to Assignee, its successors and assigns, all right title and interest in and to the above-referenced plant variety protection registrations, to be held and enjoyed by said Assignee, as fully as the same would have been enjoyed by said Assignor, had this assignment not been made.

Assignor also assigns and transfers to Assignee, any and all causes of action, claims, demands, or other rights occasioned from or because of any and all past infringement of any of the above referenced plant variety protection registrations.

Assignor further agrees that upon request, it will execute any and all documents necessary to vest all rights, title and interest in and to the above-referenced plant variety protection registrations

		5.
35.		

IN WITNESS WHEREOF, said Assignor, has affixed its signature hereto this 22 day of

CLAUSE, S.A.

Title:

JOIAN W. POWEX

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ASSIGNMENT OF INTELLECTUAL PROPERTY

WHEREAS, HARRIS MORAN SEED COMPANY, a corporation duly organized and existing under the laws of the State of Maryland, having its principal place of business at 4511 Willow Road, Suite 3, Pleasanton, California 94588 ("Assignor"), has, pursuant to that certain Bill of Sale and Assignment dated as of June 30, 1997, transferred to FERRY-MORSE SEED COMPANY (CALIFORNIA), a corporation duly organized and existing under the laws of the State of California, having its principal place of business at 555 Codoni Avenue, P.O. Box 4938, Modesto, California 95352-4938 ("Assignee"), all of the intellectual property Assignor had adopted, used and was using as of the effective date of this Assignment, including without limitation, the intellectual property represented by the United States Plant Variety Protection Certificates of Assignor identified on Schedule A hereto (collectively, the "Property"); and

WHEREAS, on the date hereof, Assignee has changed its name to "Harris Moran Seed Company";

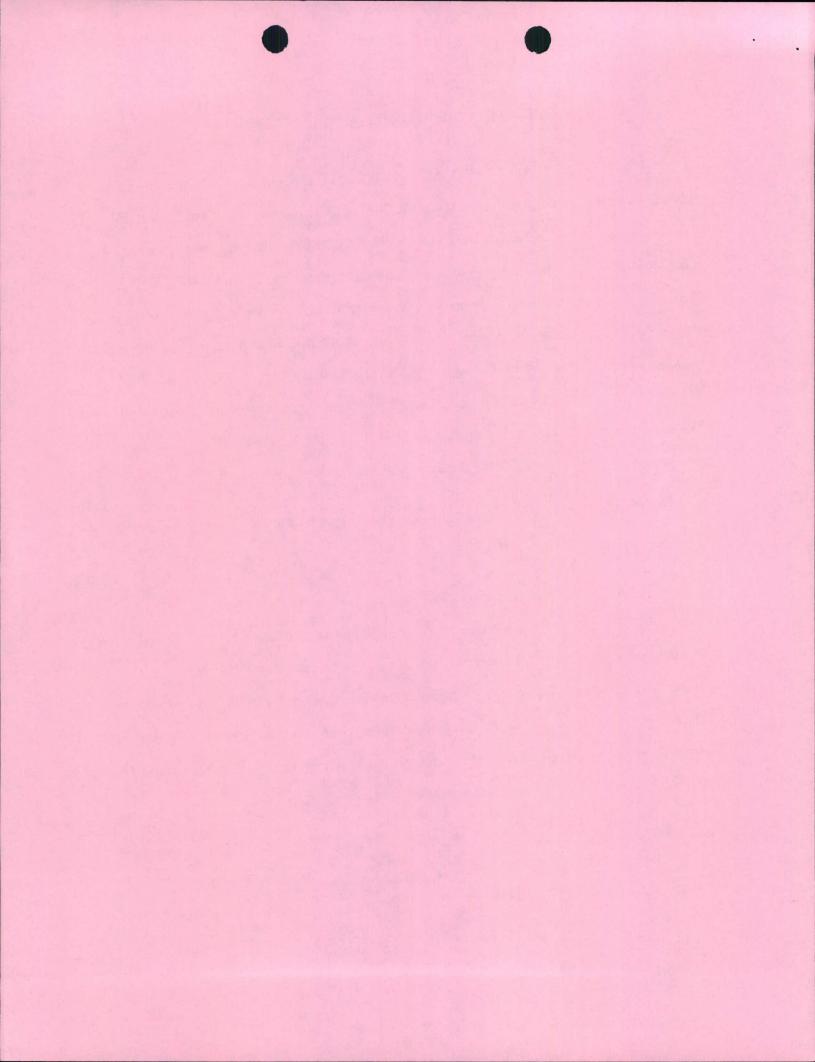
NOW, THEREFORE, effective by this instrument as of the close of business on June 30, 1997, and for good and valuable consideration, receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee any and all right, title and interest worldwide in and to the Property and any and all recordations thereof, including, but not limited to, the use of the Property in any manner, all benefit of any and all prior use of the Property, and any and all rights to initiate claims or proceedings for past, present or future infringements of Assignor's rights, title and interest in and to the Property.

Dated: as of June 30, 1997

HARRIS MORAN SEED COMPANY

Philip Ashgraft, President

NEWY01A:171511:1:09/26/97 26757-1



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CERTIFICATE OF AMENDMENT

OF THE

ARTICLES OF INCORPORATION

OF

FILED
In the office of the Secretary of State
of the State of California

JUN 3 0 1997

Bill my

FERRY-MORSE SEED COMPANY (CALIFORNIA)
(a California corporation)

To the Secretary of State State of California

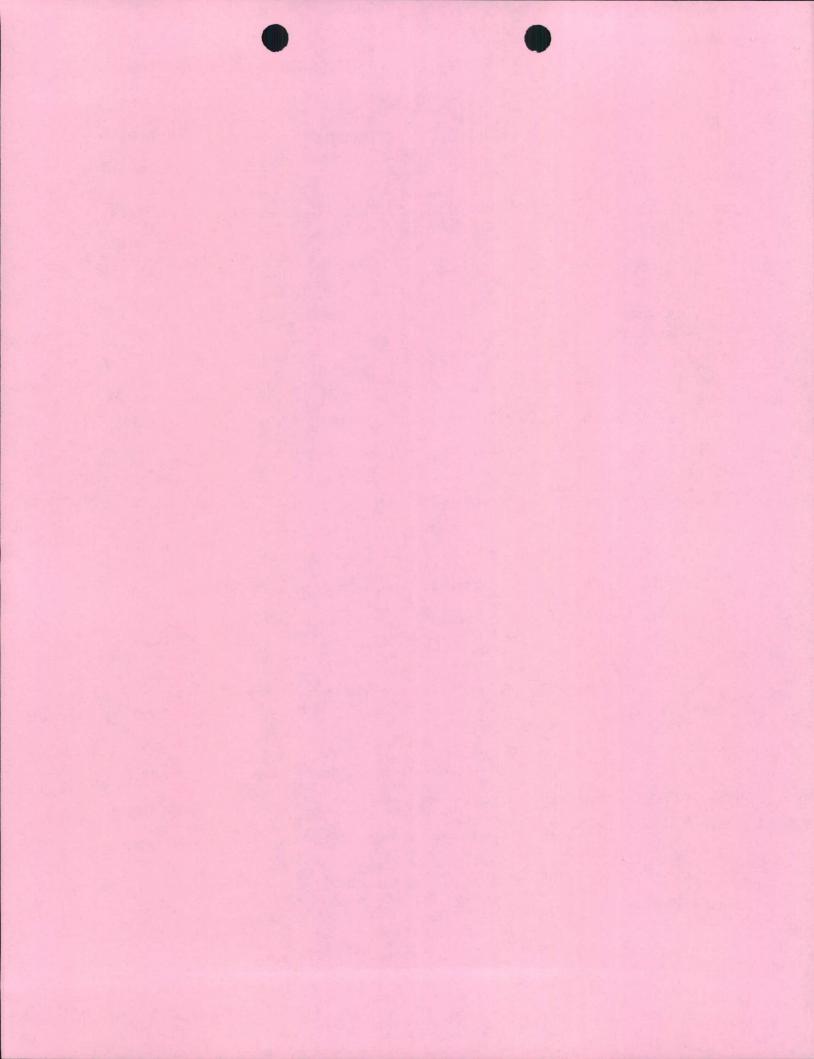
Pursuant to the provisions of the General Corporation Law of the State of California, the undersigned officers of FERRY-MORSE SEED COMPANY (CALIFORNIA), a California corporation (the "Corporation"), do hereby certify as follows:

- 1. The name of the Corporation is Ferry-Morse Seed Company (California).
- 2. Article One of the Corporation's Articles of Incorporation, which relates to the name of the Corporation, is hereby amended in its entirety to read as follows:

One. The name of this Corporation is: HARRIS MORAN SEED COMPANY.

- The amendment herein provided for has been approved by the Corporation's Board of Directors.
- 4. The amendment herein provided for was approved by the written consent of the Corporation's sole shareholder in accordance with the provisions of Section 902 of the California General Corporation Law. The total number of outstanding shares of the corporation is 5,000.

IN WITNESS WHEREOF, each of the undersigned does hereby declare under the penalty of perjury that he or she signed the foregoing Certificate of Amendment as of June 30,



1997, in the Town of Modesto, State of California, in the official capacity set forth beneath his or her signature and that the statements set forth in this certificate are true of his or her own knowledge.

Yves Queste, President

Helen Andritsakis, Secretary





SECRETARY OF STATE



I, BILL JONES, Secretary of State of the State of California, hereby certify:

That the attached transcript has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.

> IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this

> > JUN 3 0 1997



Billens

Secretary of State

